



Rocky Mountain
Remediation Services, L. L. C.
... protecting the environment

INSTRUCTION

DRAINING TANK D-825 A

RMRS/OPS-INSTR.029

Revision 0

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1. PURPOSE

This work instruction (WI) provides the instructions for draining solutions contained in Filtrate Tank D-825 A.

2. SCOPE

This WI applies to Liquid Waste Treatment personnel performing work draining D-825 A.

3. LIMITATIONS AND PRECAUTIONS

- Supervision or designee shall be notified if there is evidence of an unsafe condition.
- Proper Personal Protective Equipment (PPE) is to be worn by all operators, as required by the Radiological Work Permit (RWP) and Health and Safety.
- Where emergency conditions exist, operators may take whatever action is necessary to place the plant/process in a safe condition and protect personnel, plant, and equipment.
- Good housekeeping practices are to be followed to prevent tripping hazards. Return all tools, equipment, and supplies to their proper place.
- Know the location of eye baths, safety showers, fire extinguishers, fire reporting phones, and phones to be used in case of an emergency.

- Personnel performing the draining of the tank shall:
 - Know the possible hazards present during the draining operation.
 - Maintain communication with Control Room personnel and outside attendants.

4. PREREQUISITE ACTIONS

Supervision

- [1] Ensure that the following are completed:
 - One Radiological Control Technician (RCT) is available, if required
 - An approved Radiological Work Permit (RWP) has been obtained and reviewed
 - The performance of this procedure is scheduled on the 374/371 Plan of the Day (POD).
 - The Shift Manager or designee has authorized performance of this procedure
 - A pre-evolution briefing has been performed in accordance with MAN-066-COOP, Site Conduct of Operations Manual
 - Ensure that radio contact is available between the Draining Operators (DO) and the Control Room Operator (CRO).

- [2] **WHEN** draining tank D-825 A,
THEN ensure that the following special tools and equipment are available for use, as needed:
 - Flashlight
 - Garden hose
 - Wet vacuum (wet vac)
 - Storage container
 - Two-way radios

5. INSTRUCTIONS— TANK DRAINING OPERATION

Supervision

- [1] Ensure that all requirements outlined in Sections 3 and 4 of this WI have been completed.

NOTE *The solution is D-825A is filtrate from the vac-filter system.*

Control Room Operator

- [2] **WHEN** notified that draining activities have begun,
THEN maintain surveillance of level recorder LR-8163 for Sump Tank D-852 in order to ascertain if the draining of Filtrate Tank D-825 A is successful.
- [3] Log the start time of the draining operation in the Control Room Logbook.
- [4] **WHEN** the level in D-852 begins to increase,
THEN notify the Draining Operators.

NOTE *Refer to Pipe and Instrument Drawing (P&ID) 25101-344A during draining operations.*

Draining Operators

- [5] Attach one end of a garden hose to the hose bib at manual valve 1743, D-825 A Transmitter Drain, and place the other end of the garden hose down the floor drain in Room 4807.
- [6] Ensure that manual valves 1209, D-825 A Vacuum Inlet, and 1219, D-825 A Vacuum Outlet, are closed.
- [7] Ensure that manual valves 1810, D-825 A Transmitter Block, and 1811, D-825 A Transmitter Block, are open.
- [8] Open manual valve 1743 to allow the liquid in D-825 A to drain to D-852.
- [9] Monitor the draining setup to ensure that no leaks occur.

- [10] **IF** the level in D-852, as read on LR-8163, does not increase within 15 minutes, **THEN** slowly open manual valve 1209, D-825 A Vacuum Inlet, to break the suction block on D-825 A.
- [11] **IF** no liquid is coming out of the garden hose into the floor drain in Room 4807, **THEN** close manual valves 1743 and 1209.
- [12] Remove the hose end from the floor drain and connect it to the process water drop in Room 4805.
- [13] Slowly turn on the process water to ¼ open then open manual valve 1743, D-825 A Transmitter Drain. Allow the water to run for approximately 30 to 60 seconds.
- [14] Close manual valve 1743 and turn off the process water.
- [15] Disconnect the hose from the process water drop, drain the excess water into the storage container, and return the hose to the floor drain in Room 4807.
- [16] Repeat steps [8] through [10]

NOTE *Approximately 100 gallons should drain from the tank to D-852 (approximately 2 ½ to 3 percent on LR-8163).*

- [17] **IF** the level in D-852 begins to increase within approximately 15 minutes, **THEN** the liquid in tank D-825 A is draining.
- [18] **WHEN** notified by the Control Room Operator that the level in D-852 is no longer increasing, **THEN** close manual valve 1743, disconnect the hose, and carefully drain the remaining liquid down the floor drain in Room 4807.

NOTE *Closing manual valve 1743 should allow the level transmitter for D-825 A to work normally.*

- [19] Ensure that the level for D-825 A as read on LI-7627 on the Control Board in Room 4805, is registering a level below 100%.
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- [20] **IF** the level indicator does not register a level below 100%,
THEN reconnect the hose to the hose bib at manual valve 1743 and connect the other end to the process water drop.
- [21] Repeat steps [13] and [14] to flush the level leg on the tank a maximum of three times.
- [22] **IF** the level indicator still does not register a level below 100%,
THEN notify supervision and proceed with this section.
- [23] Disconnect the hose from the hose bib at manual valve 1743 and drain the water into the storage container.
- [24] Pour the contents of the storage container down the floor drain in Room 4807.
- [25] Place the end of the hose into the floor drain in Room 4807, open the valve on the process water drop to flush the filtrate from the garden hose, drain the water from the hose down the floor drain, and return the hose to its storage location.

Control Room Operator and Supervision

- [26] **IF** the tank draining was successful,
THEN make a note in the Control Room Logbook and the Foreman's Logbook that the high level alarm in D-825 A has been cleared and the tank has been drained to the level show on the Level Indicator in Room 4805.
- [27] **IF** the high level alarm did not clear or the level indicator registers a level above zero,
THEN make a note in the Control Room Logbook and the Foreman's Logbook of the level in the tank and that a Work Request will be submitted to Maintenance for repair of the level transmitter.
- [28] **IF** the tank draining was not successful,
THEN make a note in the Control Room Logbook and the Foreman's Logbook that draining was not successful and that a Work Request will be submitted to Maintenance for assistance in draining the tank.
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6. RECORDS

The following documents generated during the performance of the tasks defined in this document must be copied and distributed as follows: (Note: QA records are to be specifically designated as such).

<u>Document</u>	<u>Record Type</u>	<u>Disposition</u>
Foreman's Logbook		
Control Room Logbook		